



# NITRO

## VIDEO SERVERS

*The most versatile video servers in the market*

**Workflowlabs Nitro series of video servers brings industry leading channel density and flexibility for reliable channel playout and ingest functionality. Leveraging the advantages of commercially off the shelf hardware (COTS) along with the rock solid Linux platform Nitro servers delivers an unparalleled return on investment and support.**

Each port of the video server can be configured to work as News/Studio playout for A/B roll or MCR/Conti playout with branding, additionally, the ports can also be modified to work as ingest or preview ports. This versatility ensures that servers can be used for multiple use cases and a variety of workflow needs. Play and ingest from storage are supported with certified storage solutions.

Nitro video servers support automated up and down conversion of SD, HD, and 4K clips enabling back to back playout of a variety of codecs and wrappers. Last minute changes to the playlists are seamless as the cued clip can be modified as close as upto 3 seconds to playout.

The inbuilt high performance graphics engine supports a variety of graphic elements such as multiple animated logos, ticker, lower thirds, L-Band, coming up and backin bugs, clock and more...



## Smooth multilayer graphics with text and DVE effects

## Highlights

- Unparalleled flexibility for handling everything from SD to HD, 2K and 4K
- Pure Linux based server designed for extreme stability and robustness.
- Cross-platform client application runs on Windows, Mac and Linux
- Extremely compact package in a 1RU with upto 8 Bidirectional ports
- Edit and play while ingest support for quick turnaround time
- Supports third party automation control using API
- Delayed playout capability for multiple time zone transmission
- Frame accurate mirrored playout operations for mission critical workloads
- Automated house keeping and archive functionality
- Bidirectional ports can be configured as play, ingest or preview on the fly
- Inbuilt basic quality check module filters out incompatible media
- Web based system maintenance and management with individual service based logging and control for easy troubleshooting and recovery

Nitro video servers also come with automated AD/content replacement functionality based on SCTE-104 and TCP-IP triggers. Multiple AD/content replacement playlists can be run in an automated way from a single server ensuring huge manpower savings and reduced operating expenses. In addition to this Nitro servers supports delayed content playout capabilities for upto 24 hours.



Nitro servers come with comprehensive API support opening a multitude of integration opportunities. The API supports control of channel playout and graphic elements with an option to push dynamic data to the graphic templates.

For countries with regulations on the Ad duration, Nitro servers provide a web based dashboard with information about the AD time and alerts for possible ad-time overrun.



Web based multiviewer view with audio

### Specifications

Model	1100/1100G	1200/1200G	1300/1300G	1400/1400G	1500/1500G	1600/1600G	1700/1700G	1800/1800G
Bidirectional HD ports	1	2	3	4	5	6	7	8
Internal storage	Upto 30TB		Upto 60TB					
In hours @ 50Mbps	Upto 1000		Upto 2000					
Storage type	SSD/10K SAS		SSD					
Graphic ports[G Series only]	1	2	2	2	4	4	4	4
NDI Support	✓	✓	✓	✓	✓	✓	✓	✓
4K Support	X	X	X	✓	✓	✓	✓	✓
Power supply	Dual Hot plug power supply							
Network adapter	Dual 1G	Dual 1G & 10G SFP+ (Optional 10G base-T )						
Codec support	DV 25, DVC PRO, XD-CAM HD MPEG 2, H264, AVC							
Wrapper support	MXF, MOV, Mp4							
Data throughput	>100MBps		>1000MBps					
Power consumption(W)	600		800			1100		